TP BOCKET NO.: CRNT-0022

PATENT,

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
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The Re Application of:

- Mollenkopf et al.

Confirmation No.: 5088

MAY 0 5 2003

Serial No.: 10/036,914

Group Art Unit: 2632

Technology Center 2600

Filing Date: December 21, 2001

Examiner: Not yet known

For: FACILITATING COMMUNICATION OF DATA SIGNALS ON ELECTRIC

POWER SYSTEMS

DATE OF DEPOSIT: 4/19/03

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE COMMISSIONER OF PATENTS AND TRADEMARKS, WASHINGTON, DC 20231.

TYPED NAME: Vincent J. Roccia REGISTRATION NO.: 43,887

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

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		rith § 1.129(a), this Information	n Disclosure Statement is being
	filed in connect	ion with $\square$ the first or $\square$ s	second After Final Submission,
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		Certification in Accordance wit	h § 1.97(e) is attached; or
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	EXCEPT THA	AT:	
	☐ In view	w of the voluminous nature of	U.S. patent references 1-103 and
	166-16	58, and the likelihood that the	se references are available to the
	Exami	ner, copies are not enclosed he	rewith.

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**PATENT** 

In accordance with § 1.98(d), copies of the following references listed
on the attached Form PTO-1449 are not enclosed herewith because
they were previously cited by or submitted to the U.S. Patent and
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under 35 U.S.C.§ 120 have been made in the instant application:
Copies of references [list as appropriate] listed on the attached Form
PTO-1449 were previously cited by or submitted to the Patent and
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If any of the foregoing publications are not available to the
Examiner, Applicant will endeavor to supply copies at the
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Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

English language abstracts have been provided for those listed references which are not in the English language.

Date: 4/18/03

Vincent J. Roccia Registration No. 43,887

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List of Patent and Publications
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U.S. Department of Commerce Patent and Trademark Office Docket No. CRNT-0022 Serial No. 10/036,914

Applicant

Mollenkopf et al.

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Examiner		Document	Date	Name	Class	Subclass
Exammer Initial		No.				02
Illitiai	1	3,605,009	09/14/71	Enge	323	93
	2	3,641,536	02/08/72	Prosprich	340	870.15
	3	3,702,460	11/07/72	Blose	340	150
	4	3,810,096	05/07/74	Kabat et al.	340	147 R
	5	3,962,547	06/08/76	Pattantyus-Abraham	179	2.5 R
	6	3,964,048	06/15/76	Lusk et al.	340	310 R
	17	3,973,240	08/03/76	Fong	340	151
	8	4,004,110	01/18/77	Whyte	179	170 J
	9	4,016,429	04/05/77	Vercellotti et al.	307	149
	10	4,057,793	11/08/77	Johnson et al.	340	310 R
	11	4,060,735	11/29/77	Pascucci et al.	307	3
	12	4,188,619	02/12/80	Perkins	340	310 R
	13	4,239,940	12/16/80	Dorfman	179	2.51
	14	4,254,402	03/03/81	Perkins	340	310 R
	15	4,323,882	04/06/82	Gajjer	340	310 R
	16	4,357,598	11/02/82	Melvin, Jr.	340	310 A
	17	4,408,186	10/04/83	Howell	340	310 A
	18	4,442,492	04/10/84	Karlsson et al.	364	464
	19	4,457,014	06/26/84	Bloy	381	98
	20	4,569,045	02/04/86	Schieble et al.	370	85
	21	4,652,855	03/1987	Weikel	340	310
	22	4,683,450	07/28/87	Max et al.	333	202
	23	4,686,382	08/11/87	Shuey	307	149
	24	4,697,166	09/29/87	Warnagiris et al.	340	310 R
	25	4,745,391	05/17/88	Gajjar	340	310 A
		4,746,897	05/24/88	Shuey	340	310 R
	26	4,746,897	03/24/88			

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List of Patent and Publications
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Technology Center 2600 Group

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Examiner		Document	Date	Name	Class	Subclass
Initial	27	<b>No.</b> 4,766,414	08/23/88	Shuey	340	310 A
	28	4,800,363	01/24/89	Braun et al.	340	310 A
	29	4,903,006	02/02/90	Boomgaard	340	310 A
	30	4,973,940	11/27/90	Sakai et al.	340	310 R
	31	5,148,144	09/15/92	Sutterlin et al.	340	310 A
	32	5,185,591	02/09/93	Shuey	340	310 A
	33	5,257,006	10/26/93	Graham et al.	340	310A
	34	5,301,208	04/05/94	Rhodes	375	36
	35	5,369,356	11/29/94	Kinney et al.	324	142
	36	5,410,720	04/25/95	Osterman	725	150
	37	5,406,249	04/11/95	Pettus	340	310.06
	38	5,410,720	04/25/95	Osterman	725	150
	39	5,426,360	06/20/95	Maraio et al.	324	126
	40	5,485,040	01/16/96	Sutterlin	307	3
	41	5,497,142	03/05/96	Chaffanjon	340	310.06
	42	5,498,956	03/12/96	Kinney et al.	324	142
	43	5,559,377	09/24/96	Abraham	307	104
	44	5,579,221	11/26/96	Mun	364	188
	45	5,592,482	01/07/97	Abraham	348	8
	46	5,616,969	04/01/97	Morava	307	91
	47	5,691,691	11/25/97	Merwin et al.	340	310.02
	48	5,705,974	01/06/98	Patel et al.	340	310.08
	49	5,712,614	01/27/98	Patel et al.	340	310.03
	50	5,726,980	03/10/98	Rickard	370	293
,	51	5,777,545	07/07/98	Patel et al.	341	310.06
	52	5,796,607	08/18/98	Le Van Suu	364	140.01

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List of Patent and Publications

Cited by Applicant (Use several sheets if necessary)

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December 21, 2001

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U. S. PATENT DOCUMENTS						
Examiner		Document No.	Date	Name	Class	Subclass
<u>Initial</u>	53	5,805,053	09/08/98	Patel et al.	340	310.01
	54	5,828,293	10/27/98	Rickard	340	310.04
	55	5,835,005	11/10/98	Furukawa et al.	340	310.01
	56	5,856,776	01/05/99	Armstrong et al.	340	310.01
	57	5,870,016	02/1999	Shresthe	340	310.01
	58	5,892,430	04/06/99	Wiesman et al.	340	310.01
	59	5,933,071	08/03/99	Brown	340	310.01
	60	5,933,073	08/03/99	Shuey	340	310.07
	61	5,978,371	11/02/99	Mason, Jr. et al.	370	389
	62	5,982,276	11/09/99	Stewart	340	310.01
	63	5,994,998	11/30/99	Fisher et al.	340	310.01
	64	6,023,106	02/08/00	Abraham	307	3
	65	6,091,932	07/18/00	Langlais	455	5.1
	66	6,104,707	08/15/00	Abraham	370	295
	67	6,140,911	10/2000	Fisher et al.	340	310.01
	68	6,144,292	11/07/00	Brown	340	310.02
	69	6,151,330	11/21/00	Liberman	370	449
	70	6,157,292	12/05/00	Piercy et al.	340	310.01
	71	6,172,597 B1	01/09/01	Brown	340	310.02
	72	6,177,849 B1	01/23/01	Barsellotti et al.	333	177
	73	6,212,658 B1	04/03/01	Le Van Suu	714	749
-	74	6,239,722 B1	05/29/01	Colton et al.	340	870.02
	75	6,297,730 B1	10/02/01	Dickinson	340	310.01
	76	6,317,031 B1	11/13/01	Rickard	340	310.03
	77	6,331,814 B1	12/18/01	Albano et al.	340	310.01
	78	6,373,376 B1	04/16/02	Adams et al.	340	310.01

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December 21, 2001 2632

Group

U. S. PATENT DOCUMENTS						
Examiner		Document	Date	Name	Class	Subclass
<u>Initial</u>	79	No. 6,396,391 B1	05/02	Binder	340	310.01
	80	6,396,392 B1	.05/28/02	Abraham	340	310.01
	81	6,404,773 B1	06/11/02	Williams et al.	370	463
	82	6,407,987 B1	06/18/02	Abraham	370	295
	83	6,414,578	07/02/02	Jitaru	336	170
	84	6,425,852 B1	07/30/02	Epstein et al.	600	13
	85	6,441,723 B1	08/27/02	Mansfield, Jr. et al.	340	310.01
	86	6,452,482 B1	09/17/02	Cern	340	310.01
	87	6,480,510 B1	11/02	Binder	370	502
-	88	6,486,747 B1	11/26/02	DeCramer et al.	333	25
	89	6,496,104 B2	12/17/02	Kline	340	310.01
	90	6,504,357 B1	01/07/03	Hemminger et al.	340	310.01
	91	2001/0038329 A1	11/08/01	Diamanti et al.	340	310.01
	92	2001/0038343 A1	11/08/01	Meyer et al.	340	870.02
	93	2001/0052843 A1	12/20/01	Wiesman et al.	340	310.01
	94	2001/0054953 A1	12/27/01	Kline	340	310.01
	95	2002/0010870 A1	01/24/02	Gardner	713	300
	96	2002/0014884 A1	02/07/02	Chung	324	74
	97	2002/0041228 A1	04/11/02	Zhang	340	310.01
	98	2002/0060624 A1	05/23/02	Zhang	340	310.01
	99	2002/0071452 A1	06/13/02	Abraham	370	480
	100	2002/0080010 A1	06/27/02	Zhang	340	310.06
	101	2002/0095662 A1	07/18/02	Ashlock et al.	717	136
	102	2002/0098867 A1	07/25/02	Meiksen et al.	455	560
	103	2002/0105413 A1	08/08/02	Cern	340	310.01
	104	S. N. 10/293,799	11/13/02	Huebner		

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Applicant

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## U. S. PATENT DOCUMENTS

			S. PATENT D		(3)	Subclass
Examiner Initial		Document No.	Date	Name	Class	Subciass
IIIItiai	105	S.N. 10/292,745	11/12/02	Cope et al.		
	106	S.N. 10/292,714	11/12/02	Cope		
	107	S.N. 10/315,725	12/10/02	Cope et al.		
	108	S.N. 10/319,317	12/13/02	Mollenkopf et al.		
	109	S.N. 10/348,164	01/21/03	Cope et al.		
	110	S.N. 10/385,899	03/10/03	Mollenkopf		

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U.S. Department of Commerce Patent and Trademark Office	Filing Date <b>December 21, 2001</b>	Group		

FOREIGN PATENT DOCUMENTS						
Examiner		Document No.	Date	Country	YES	nslation NO
Initial	111	0 470 185 B1	11/29/95	EP		
	112	0 581 351 A1	02/02/94	EP		
	113	0 916 194 B1	09/26/01	EP		
	114	1 011 235 A2	6/21/00	EP		
	115	1 011 235 A3	05/02/02	EP		
	116	1 014 640 A2	06/28/00	EP		
	117	1 014 640 A3	07/03/02	EP		
	118	1 021 866 B1	10/23/02	EP		
	119	2 293 950 A	04/10/96	GB		
	120	2 315 937 A	02/11/98	GB		
	121	2 331 683 A	05/26/99	GB		
	122	2 342 264 A	04/05/00	GB		
	123	2 347 601 A	09/06/00	GB		
	124	1276933	11/07/89	JP		
	125	98/40980 A1	09/17/98	WO		
	126	00/59076 A1	10/05/00	WO		
	127	00/60701 A1	10/12/00	WO		
	128	01/43305 A1	06/14/01	WO	X abstract	
	129	01/82497 A1	11/01/01	WO		
	130	02/054605 A1	07/11/02	WO		

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U.S. Department of Commerce Patent and Trademark Office	Filing Date December 21, 2001	Group 2632	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			

OTHE	R DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
131	Power Line Communications Conference entitled, "PLC, A New Competitor in Broadband Internet Access," <b>December 11-12, 2001</b> , Washington, D.C., 60 pages
132	Rivkin, S. R., "Co-Evolution of Electric & Telecommunications Networks," <i>The Electricity Journal</i> , May 1998, 71-76
133	Marketing Assessment Presentation entitled "Powerline Telecommunications," The Shoigler Group for CITI PLT, July 16, 2002, 9 pages
134	Campbell, C., presentation entitled "Building a Business Case for PLC: Lessons Learned From the Communication Industry Trenches," KPMG Consulting, July 16, 2002, 5 pages
135	"Embedded Power Line Carrier Modem," Archnet Electronic Technology, <a href="http://www.archnetco.com/english/product/ATL90.htm">http://www.archnetco.com/english/product/ATL90.htm</a> , 2001, 3 pages
136	"Archnet: Automatic Meter Reading System Power Line Carrier Communication", www.archnetco.com/english/product/product_sl.htm, 3 pages
137	"Power Line Communications Solutions", www.echelon.com/products/oem/transceivers/powerline/default.htm, 2 pages
138	"Texas Instruments: System Block Diagrams; Power Line Communication (Generic)", <a href="http://focus.ti.com/docs/apps/catalog/resources/blockdiagram.jhtml?bdId=638">http://focus.ti.com/docs/apps/catalog/resources/blockdiagram.jhtml?bdId=638</a> , 1 page
139	Feduschak, N.A., "Waiting in the Wings: Is Powerline Technology Ready to Compete with Cable?", March 2001,
140	"Signalling on Low-Voltage Electrical Installations in the Frequency Band 3KHZ to 148.5kHz-Part 4: Filters at the Interface of the Indoor and Outdoor Electricity
141	"Intellon Corporation Test Summary for Transformerless Coupler Study", Intellon No. News Wires, December 24, 1998, DOT/NHTSA Order No. DTNH22-98-P-07632, pp. 1-18
142	EMETCON Automated Distribution System, ABB Power T & D Company, Inc.,  January 1990, Raleigh, North Carolina, No B-919A, 14 pages
143	"Dedicated Passive Backbone for Power Line Communications", IBM Technical
144	Coaxial Feeder Cables [Engineering Notes]", PYE Telecommunications Limited Publication Ref No. TSP507/1, June 1975, Cambridge, England, 15 pages

EXAMINER	DATE CONSIDERED
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PANER			
Form I	PTO-1449 Modified	Docket No. CRNT-0022	Serial No. 10/036,914
List of Patent and Publications			RECEIVED
Cited by Applicant  (Use several sheets if necessary)		Applicant Mollenkopf et al.	MAY 0 5 2003
U.S. De Patent	epartment of Commerce and Trademark Office	Filing Date December 21, 2001	Group 2632 Zechnology Center 260
ОТНЕБ	R DOCUMENTS (Including Author	r, Title, Date, Pertinen	t Pages, Etc.)
145	"Centralized Commercial Building A Power Line Transceiver", Lonworks	Applications with the Lo Engineering Bulletin, l	onworks ® PLT-21
146	"Plexeon Logistics, Inc., "Power Linwww.plexeon.com/power.html, 2 pa	ages	.: C.:Ja?
147	"EMETCON Automated Distribution Westinghouse ABB Power T & D Co. September 1989, 55 pages	ompany Technical Man	ual 42-0001A,
148	Abraham, K.C. et al., "A Novel Hig Transactions on Power Delivery, 19	<b>92,</b> 7(4), 1760-1768	
J.M. Barstow., "A Carrier Telephone System for Rural Service", AIEE Transaction 1947, 66, 301-307			
150 Chang, S.S.L., "Power-Line Carrier Computer Engineering", Volume I Systems, John Wiley & Sons, 617-		I-Communication, Co 627	ntrol, Devices and
151 Chen, Y-F. et al. "Baseband Transceiver Design of a 128-Kl for Household Applications", <i>IEEE Transactions on Power</i> 338-344		r Delivery, 2002, 17(2),	
Coakley, N.G. et al., "Real-Time Control of a Servosytem Using the Inverter-Fed Power Lines to Communicate Sensor Feedback", <i>IEEE Transactions on Industria</i> Flectronics, 1999, 46(2), 360-369			insactions on Industrial
Esmailian, T. et al., "A Discrete Multitone Power Line Communication System",  Department of Electrical and Computer Engineering, University of Toronto, Ontai  Canada, 2000 IEEE, pp 2953-2956			ersity of Toronto, Ontario
Kawamura, A. et al., "Autonomous Decentralized Manufacturing System Using High-speed Network with Inductive Transmission of Data and Power", <i>IEEE</i> , 1996, 940-945			and Power", IEEE, 1996,
Kilbourne, B. "EEI Electric Perspectives: The Final Connection",			
156	Kim, W-O., et al., "A Control Network for Power Line Data Communication Flactronics 2002, 48(3), 650-655	work Architecture Based ons", <i>IEEE Transaction</i>	as on Consumer
157 Lim, C.K. et al., "Development of a Test Bed for High-Speed Power Line Communications", School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, <i>IEEE</i> , <b>2000</b> , 451-456			gineering, Nanyang

	CONCIDEDED
EVAMINED	DATE CONSIDERED
EXAMINER	



Form	PTO-1449 Modified	Docket No. CRNT-0022	Serial No. 10/036,914	
(	Patent and Publications Cited by Applicant veral sheets if necessary)	Applicant Mollenkopf et al.		
U.S. D Paten	epartment of Commerce t and Trademark Office	Filing Date  December 21, 2001	Group <b>2632</b>	
OTHE	R DOCUMENTS (Including Autho	r, Title, Date, Pertiner	nt Pages, Etc.)	
158 159 160 161 162	Lokken, G. et al., "The Proposed Wisconsin electric Power Company Load Management System Using Power Line Carrier Over Distribution Lines", 1976 National Telecommunications Conference, IEEE, 1976, 2.2-12.2-3  Marthe, E. et al., "Indoor Radiated Emission Associated with Power Line Communication Systems", Swiss Federal Institute of Technology Power Systems Laboratory IEEE, 2001, 517-520  Naredo, J.L. et al., "Design of Power Line Carrier Systems on Multitransposed Delta Transmission Lines", IEEE Transactions on Power Delivery, 1991, 6(3), 952-958  Nichols, K., "Build a Pair of Line-Carrier Modems", CRC Electronics-Radio Electronics, 1988, 87-91  Okazaki, H, et al., "A Transmitting, and Receiving Method for CDMA Communications Over Indoor Electrical Power Lines", IEEE, 1998, pp VI-522-VI-			
163	B. Don Russell, "Communication Alternatives for Distribution Metering and Load Management", <i>IEEE Transactions on Power Apparatus and Systems</i> , <b>1980</b> , Vol PAS-99(4), pp 1448-1455  Sado, WN. et al., "Personal Communication on Residential Power Lines- Assessment			
165	of Channel Parameters", <i>IEEE</i> , 532-537  International Search Report dated August 7, 2002, from PCT/US02/04300			

RECEIVED

MAY 0 5 2003

Technology Center 2600

EXAMINER	DATE CONSIDERED
EXAMINER	

Form PTO-1449 Modified  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Docket No. CRNT-0022	Application No. 10/036,914	
				Applicant Mollenkopf et al.		
U.S. Department of Commerce Patent and Trademark Office			Filing Date December 21, 2001	Group 2632		
		U	. S. PATENT	DOCUMENTS		
Examiner Initial		Document No.	Date	Name	Class	Subclass
IIIIIIII	166	5,066,939	11/19/91	Mansfield, Jr.	340	310 R
	167	5,533,054	07/02/96	DeAndrea et al.	375	286
	168	5,598,406	01/28/97	Albrecht et al.	370	296
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					MAY 0	5 2003
					Technology Center 2600	
		FOI	REIGN PATE	ENT DOCUMENTS		
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